

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/001024

A. CLASSIFICATION OF SUBJECT MATTER				
IPC 7	A61F2/00	A61L27/38	C12N5/06	A61K31/715

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61L C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 432 711 B1 (DINSMORE JONATHAN H ET AL) 13 August 2002 (2002-08-13)	1,2,8, 10-17, 22,23
Y	abstract column 5, line 62 – column 6, line 25; examples 1-3 ----- -/-	18-21, 24-26

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
1 July 2004	12/08/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mateo Rosell, A.M.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>SHIMIZU TATSUYA ET AL: "Fabrication of pulsatile cardiac tissue grafts using a novel 3-dimensional cell sheet manipulation technique and temperature-responsive cell culture surfaces." CIRCULATION RESEARCH. 22 FEB 2002, vol. 90, no. 3, 22 February 2002 (2002-02-22), pages e40-E48, XP002285777 ISSN: 1524-4571 cited in the application the whole document</p> <p>-----</p> <p>TERUO OKANO: "Cardiac tissue reconstruction based on cell sheet engineering" JAPANESE CIRCULATION SOCIETY, 'Online! 2002, pages 1-4, XP002285778 Retrieved from the Internet: URL:http://www.j-circ.or.jp/english/sessions/reports/66th-ss/okano.htm> 'retrieved on 2004-06-23! the whole document</p> <p>-----</p>	18-21, 24-26
Y	<p>WO 01/07568 A (DIACRIN INC) 1 February 2001 (2001-02-01)</p> <p>page 2, lines 18-24 page 3, columns 15-24 page 33, line 14 - page 34, line 7</p> <p>-----</p>	1,5,6, 9-17,22, 23
X	<p>KELLAR ROBERT S ET AL: "Scaffold-based three-dimensional human fibroblast culture provides a structural matrix that supports angiogenesis in infarcted heart tissue" CIRCULATION, vol. 104, no. 17, 23 October 2001 (2001-10-23), pages 2063-2068, XP002285779 ISSN: 0009-7322 abstract</p> <p>page 2064, left-hand column, paragraph 2 - page 2065, right-hand column, paragraph 1</p> <p>-----</p>	1,6,10, 16,17, 22,23
	-/-	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MIYAGAWA SHIGERU ET AL: "A tissue engineered contractile cardiac graft improves the cardiac performance in infarct rat heart" 23 October 2001 (2001-10-23), CIRCULATION, VOL. 104, NR. 17 SUPPLEMENT, PAGE(S) II.599 , SCIENTIFIC SESSIONS 2001 OF THE AMERICAN HEART ASSOCIATION; ANAHEIM, CALIFORNIA, USA; NOVEMBER 11-14, 2001 , XP008031972 ISSN: 0009-7322 abstract</p> <p>_____</p>	1,10-15, 17-24,26
P,A	<p>BACH A D ET AL: "Expression of Trisk 51, agrin and nicotinic-acetylcholine receptor epsilon-subunit during muscle development in a novel three-dimensional muscle-neuronal co-culture system." CELL & TISSUE RESEARCH, vol. 314, no. 2, November 2003 (2003-11), pages 263-274, XP002285780 ISSN: 0302-766X abstract</p> <p>page 265, left-hand column, paragraph 4 - right-hand column, paragraph 1 page 266, right-hand column, paragraph 1 page 269, right-hand column, paragraph 1 - page 270, left-hand column, paragraph 1</p> <p>_____</p>	1,4,5, 9-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/001024

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 6432711	B1	13-08-2002	US 2002187550 A1	12-12-2002
			CA 2174746 A1	11-05-1995
			EP 0725817 A1	14-08-1996
			WO 9512665 A1	11-05-1995
WO 0107568	A	01-02-2001	AU 770889 B2	04-03-2004
			AU 6234600 A	13-02-2001
			CA 2378643 A1	01-02-2001
			EP 1200559 A2	02-05-2002
			JP 2003505475 T	12-02-2003
			WO 0107568 A2	01-02-2001
			US 2003113301 A1	19-06-2003
			US 6673604 B1	06-01-2004

INTERNATIONAL SEARCH REPORT

International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the International application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the International application as filed
 - filed together with the International application in computer readable form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

PCT REQUEST

Original (for SUBMISSION)

VIII-5-1	<p>Declaration: Non-prejudicial disclosure or exceptions to lack of novelty</p> <p>Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(e)(v));</p> <p>Name (LAST, First)</p>	<p>in relation to this international application</p> <p>Cardio Incorporated declares that the subject matter claimed in this international application was disclosed as follows:</p>
VIII-5-1(i)	Kind of disclosure:	other: Scientific Meeting
VIII-5-1(ii)	Date of disclosure:	28 March 2003 (28.03.2003)
VIII-5-1(iii)	Title of disclosure:	The 67th Annual Scientific Meeting of the Japanese Circulation Society
VIII-5-1(iv)	Place of disclosure:	Room 10
VIII-5-1(i)	Kind of disclosure:	other: The Website on the Internet
VIII-5-1(ii)	Date of disclosure:	28 March 2003 (28.03.2003)
VIII-5-1(iii)	Title of disclosure:	The 67th Annual Scientific Meeting of the Japanese Circulation Society
VIII-5-1(v)	This declaration is made for the purposes of:	all designations